



P.B.5818 - Patentaan 2
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APPLEYARD LEES

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Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.

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Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

Samsung Electronics Co., Ltd.

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☐ abstract

☒ title

☒ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

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REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 03 25 6665

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 3 192 726 A (NEWTON ALWIN B) 6 July 1965 (1965-07-06) * column 2, line 3 - column 3, line 72 * * claims 1-11 * * figure 1 *	1,2,12, 14-16, 26,28	F25C1/10 F25B21/02
A	-----	3,13,17, 27	
X	DE 19 22 920 A (ALFA LAVAL BERGEDORFER EISEN) 19 November 1970 (1970-11-19) * page 1, paragraph 5 - page 2, paragraph 1 * * claims 1,2 * * figure 1 *	1-3, 15-17	
A	-----	12,14, 26,28	
A	US 3 146 601 A (GOULD RICHARD E) 1 September 1964 (1964-09-01) * column 2, line 19 - column 3, line 70 * * figures 1-6 *	1,2, 4-10, 14-16, 18-24,28	TECHNICAL FIELDS SEARCHED (Int.Cl.7) F25B F25C
A	US 5 140 831 A (KOHL VANCE L ET AL) 25 August 1992 (1992-08-25) * column 2, line 55 - column 5, line 7 * * column 6, line 51 - column 7, line 17 * * figures 2,4-10 *	1,4-10, 12,14, 15, 18-24, 26,28	
A	US 2 990 697 A (BUZICKY EDMUND J) 4 July 1961 (1961-07-04) * the whole document * ----- -/-	1,4-10, 14,15, 18-24,28	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 18 March 2004	Examiner CORREIA DOS REIS, I
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1503 03/92 (P44091)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 4 487 024 A (MOSHIER EVERETT ET AL) 11 December 1984 (1984-12-11) * column 2, line 9 - column 2, line 61 * * column 8, line 64 - column 8, line 67 * * figures 1,2,6 * -----	1-3,12, 14-17, 26,28	
A	US 2001/027654 A1 (PARASZCZAK STEVEN ET AL) 11 October 2001 (2001-10-11) * figure 7 * -----		
A	US 2 510 400 A (HURLEY FREDERICK A) 6 June 1950 (1950-06-06) * figures 1,3,4,9 * -----		
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 18 March 2004	Examiner CORREIA DOS REIS, I
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 25 6665

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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18-03-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3192726 A	06-07-1965	DE 1250457 B FR 1432455 A GB 1069452 A	18-03-1966 17-05-1967
DE 1922920 A	19-11-1970	DE 1922920 A1	19-11-1970
US 3146601 A	01-09-1964	NONE	
US 5140831 A	25-08-1992	US 5014523 A	14-05-1991
US 2990697 A	04-07-1961	NONE	
US 4487024 A	11-12-1984	NONE	
US 2001027654 A1	11-10-2001	AU 7851200 A BR 0007207 A CN 1347489 T EP 1144925 A2 JP 2003511650 T WO 0127544 A2	23-04-2001 04-09-2001 01-05-2002 17-10-2001 25-03-2003 19-04-2001
US 2510400 A	06-06-1950	NONE	